CONFIDENTIAL

RD-103 T.O. 3

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April 24, 1959

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Subject: Proposal for Burroughs High Speed Electrostatic Printer S203 Modified (Whippet II)

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In response to your verbal request for cost data in support of our proposal dated April 15, 1959, attached are three (3) completed copies of cost and price analysis, Form DD 633.

We trust this information meets with your approval and that you will not hesitate to call on us if you require any further information.

Very truly yours,

Burroughs Corporation

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Contract Manager

CONFIDENTIAL

DEPARTMENT OF DEFENSE
COST AND PRICE ANALYSIS

NOTE.—If your cost-accounting system does not permit analysis of costs as suggested below, contact the purchasing office for further instructions.

Form approved.
Budget Bureau No. 22-R100.

NAME OF OFFEROR: Burroughs Corporation

HOME-OFFICE ADDRESS: 6071 Second Avenue

DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED: Detroit Division, 6071 Second Avenue, Detroit, Michigan

SUPPLIES AND/OR SERVICES TO BE FURNISHED: Burroughs High Speed Electrostatic Printer S203 Whippet II

QUANTITY: 1 only | AMOUNT OF PROPOSAL: 35,300 | PROCUREMENT DIRECTIVE NO.:

PREVIOUS CONTRACT FOR SIMILAR MATERIAL
CONTRACT NO.:
QUANTITY:
ACTUAL MANUFACTURING PERIOD (*Exclusive preproduction*) FROM: TO:
PEAK RATE PER MONTH:

ITEMS (*Excluding tooling*) [a]	PROPOSED CONTRACT ESTIMATE: PREPRODUCTION	PRODUCTION	TOTAL	PREVIOUS CONTRACT ACTUAL UNIT COST [d] [f]
1. DIRECT MATERIAL:				
URCHASED PARTS [b]			12,877.97	
SUBCONTRACTED ITEMS [b]				
OTHER [c]				
2. ENGINEERING LABOR:				
HOURS PREPRODUCTION: — PRODUCTION: 470 — OTHER:			1,614.45	
3. ENGINEERING BURDEN 71.2% OF 2			1,149.49	
4. DIRECT MANUFACTURING LABOR:				
HOURS PREPRODUCTION: — PRODUCTION: 1084			2,926.20	
ANUFACTURING BURDEN 105.4% OF 4			3,084.46	
6. OTHER DIRECT COSTS: [j]				
7. Ass'y Labor - 1052 Hrs.			2,672.00	
8. Burden @ 201%			5,370.00	
9.				
10. OTHER INDIRECT COSTS: [j]				
11.				
12.				
13.				
14. SUBTOTALS			29,694.57	
15. SELLING EXPENSES				
16. GENERAL AND ADMINISTRATIVE EXPENSES			2,078.61	
17. SUBTOTALS			31,773.18	
18. PROFIT			3,526.82	
19. ROYALTIES [e]			35,300.00	
20. CONTINGENCIES [g]				
21.				
22. FEDERAL MANUFACTURERS' OR RETAILERS' EXCISE TAX [h]				
23. UNIT SELLING PRICE OR TOTAL CONTRACT PRICE EXCLUDING TOOLING [i]				
24. SPECIAL TOOLING COST FROM REVERSE SIDE OF FORM				
25. UNIT SELLING PRICE INCLUDING SPECIAL TOOLING [i]			35,300.00	

DD FORM 1 MAY 53 633 — Replaces departmental forms for this purpose which may be used until 30 September 1953. (*See Reverse Side*)

16-69480-1

ANALYSIS OF TOTAL ESTIMATED COST OF SPECIAL TOOLING

COST ELEMENTS	ESTIMATED COST
1. DIRECT MATERIAL:	
PURCHASED PARTS [b]	
SUBCONTRACTED ITEMS [b]	
OTHER [c]	
2. DIRECT MFG. LABOR HOURS	
3. BURDEN % OF 2	
4. DIRECT ENG. LABOR HOURS	
5. BURDEN % OF 4	
6. OTHER FACTORS: [i]	
7.	
8.	
9. TOTAL ESTIMATED COST	
10. AVERAGE COST PER UNIT	

FOOTNOTES

[a] Furnish in space at left separate analysis for total cost of special tooling.

[b] Definitions are shown on DD Form 347 referenced in ASPR paragraph 7-105.7, Bill of Materials. Attach list of principal parts and items indicating source and unit price.

[c] Ordinarily includes (1) basic commodities and raw materials acquired by a contractor in a form or state which requires further processing and (2) other general usage materials which are procured or manufactured for usage in the normal course of contractor's business. Describe method of costing (2).

[d] For research and development and other projects under which it is impracticable to show unit prices, the data should be presented on a total contract price basis.

[e] Furnish patent numbers, names of licensors and rate and basis of royalties.

[f] Exclude any preproduction or other nonrecurring costs. If previous contract is not completed, use best estimate.

[g] Explain fully, attaching list of items and amounts.

[h] Selling price must include any applicable excise tax on finished articles.

[i] Price is F. O. B. ☒ origin or ☐ destination. If the latter, indicate transportation cost $ _____ .

[j] Should include, for example; such things as:

1. "Packaging and Packing," if special to the contract, of significant dollar value, or separately accounted for. As alternate procedure, use a supporting schedule.

2. "Material Handling," if separately accounted for.

1. Is the estimate for direct labor based on wage rates currently prevailing in your plant? ☒ Yes ☐ No *(If not, explain difference on a separate sheet.)*

2. What monthly rate of production is contemplated in calculating your price proposal? 4 units. How many hours of operation required per week? 40 - 48

3. If currently producing the same or similar items, what monthly rate of production prevails? _____ units. How many hours of operation required per week? _____

4*a*. Explain method of computing any depreciation charge included in your proposal.

Tooling - Double Declining Method
All other Equipment - Straight Line Method

b. Have you included any charge for fully depreciated facilities or equipment? ☒ Yes ☐ No *(If yes, explain.)*

5. The Company, Corporation, or Firm submitting this analysis represents that: (A) the prices shown on this form do not include any charge for (I) cost of facilities (*including tools, jigs, dies, and other equipment*) which duplicates any charge against any other prior or current Government contract or subcontract; (II) any depreciation on facilities or equipment owned by the Government or any Government agency; (III) any rental or use charge on facilities or equipment owned by the Government, or any Government agency if such facilities or equipment have been provided free of charge;

(B) The prices shown on this form are based on the understanding that the following material, or services, will be furnished by the Government:

Rent free use of Facilities and Tooling
under Contracts AF 33(038)- 21577 and AF 30(635)-10591

(C) It does not require any Government financial assistance;

(D) Bases used in computation of burden rates do [redacted] include allowance for overtime compensation;

(E) The bidder (*contractor*) represents: (*a*) that he ☐ has, ☒ has not, employed or retained any company or person (*other than a full-time bona fide employee working solely for the bidder* (*contractor*)) to solicit or secure this contract and (*b*) that he ☐ has ☐ has not, paid or agreed to pay to any company or person (*other than a full-time bona fide employee working solely for the bidder* (*contractor*)) any fee, commission, percentage or brokerage fee, contingent upon or resulting from the award of this contract; and agrees to furnish information relating thereto as requested by the contracting office.

(F) The prices shown do not include any cost of acquisition of facilities.

ANY EXCEPTIONS TO ITEM 5 SHOULD BE FULLY EXPLAINED ON SEPARATE SHEETS.

CERTIFICATION.—*This is to certify that the information contained in this proposal has been based upon or compiled from the books and records of [redacted] the best of my knowledge and belief.*

DATE	FIRM NAM
April 24, 1959	
TITLE	BY (*Signature of*
Controller, Detroit Division	

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DEPARTMENT OF DEFENSE
COST AND PRICE ANALYSIS

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Form approved.
Budget Bureau No. 22-R100.

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HOME-OFFICE ADDRESS: 6071 Second Avenue

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SUPPLIES AND/OR SERVICES TO BE FURNISHED: High Speed Electrostatic Printer S203 Whippet II

PREVIOUS CONTRACT FOR SIMILAR MATERIAL

CONTRACT NO.

QUANTITY

ACTUAL MANUFACTURING PERIOD (*Exclusive preproduction*)

FROM | TO

25X1 25X1 25X1

QUANTITY	AMOUNT OF PROPOSAL	PROCUREMENT DIRECTIVE NO.	PEAK RATE PER MONTH
1 only	35,300		

ITEMS (*Excluding tooling*) [a]	PROPOSED CONTRACT ESTIMATE			PREVIOUS CONTRACT ACTUAL UNIT COST [d] [f]
	PREPRODUCTION	PRODUCTION	TOTAL	
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SUBCONTRACTED ITEMS [b]				
OTHER [c]				
2. ENGINEERING LABOR:				
HOURS PREPRODUCTION: — PRODUCTION: 470 — OTHER:			1,614.45	
3. ENGINEERING BURDEN 71.2% OF 2			1,149.49	
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HOURS PREPRODUCTION: — PRODUCTION: 1004			2,926.20	
MANUFACTURING BURDEN 105.4% OF 4			3,084.46	
6. OTHER DIRECT COSTS: [j]				
7. Assy Labor = 1052 Hrs.			2,672.00	
8. Burden = 201%			5,370.00	
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16—69460-1

ANALYSIS OF TOTAL ESTIMATED COST OF SPECIAL TOOLING

COST ELEMENTS	ESTIMATED COST
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PURCHASED PARTS [b]	
SUBCONTRACTED ITEMS [b]	
OTHER [c]	
2. DIRECT MFG. LABOR HOURS	
3. BURDEN % OF 2	
4. DIRECT ENG. LABOR HOURS	
5. BURDEN % OF 4	
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FOOTNOTES

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[g] Explain fully, attaching list of items and amounts.

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[i] Price is F. O. B. ☒ origin or ☐ destination. If the latter, indicate transportation cost $ _____ .

[j] Should include, for example, such things as:

1. "Packaging and Packing," if special to the contract, of significant dollar value, or separately accounted for. As alternate procedure, use a supporting schedule.
2. "Material Handling," if separately accounted for.

1. Is the estimate for direct labor based on wage rates currently prevailing in your plant? ☒ Yes ☐ No (*If not, explain difference on a separate sheet.*)

2. What monthly rate of production is contemplated in calculating your price proposal? 4 units. How many hours of operation required per week? 40 - 48

3. If currently producing the same or similar items, what monthly rate of production prevails? _____ units. How many hours of operation required per week? _____

4a. Explain method of computing any depreciation charge included in your proposal.

Tooling - Double Declining Method
All other Equipment - Straight Line Method

b. Have you included any charge for fully depreciated facilities or equipment? ☒ Yes ☐ No (*If yes, explain.*)

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(B) The prices shown on this form are based on the understanding that the following material, or services, will be furnished by the Government:

Rent free use of Facilities and Tooling under Contracts AF 33(038)-21577 and AF 30(635)-10591

(C) It does not require any Government financial assistance;

(D) Bases used in computation of burden rates do [redacted] include allowance for overtime compensation;

(E) The bidder (*contractor*) represents: (*a*) that he ☐ has, ☒ has not, employed or retained any company or person (*other than a full-time bona fide employee working solely for the bidder (contractor)*) to solicit or secure this contract and (*b*) that he ☐ has ☒ has not, paid or agreed to pay to any company or person (*other than a full-time bona fide employee working solely for the bidder (contractor)*) any fee, commission, percentage or brokerage fee, contingent upon or resulting from the award of this contract; and agrees to furnish information relating thereto as requested by the contracting office.

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CERTIFICATION.—*This is to certify that the information contained in this proposal has been based upon or compiled from the books and record* [redacted] *best of my knowledge and belief.*

DATE	FIRM
April 24, 1959	
TITLE: Controller, Detroit Division	BY (*Signature of offi* [redacted]

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U. S. GOVERNMENT

25X1

March 20, 1959

TECHNICAL OUTLINE

TAPE PRINTER

CHARACTERISTICS

This equipment shall be rack-mounted and have the following physical characteristics:

Dimensions - 10 1/2 inches high, 27 1/2 inches wide (except for 29 inch panel) by 28 inches deep;

Volume - 1.9 cubic feet;

Weight - 45-60 pounds.

The operating characteristics shall be as follows:

Tape Width - 7/8 inch

Tape Speed - 16 inches per second (approximate)

Input - Serial 5-bit teletype code

Word Rate - 1600 words per minute.

Description: The elements required for the printing of the tape, namely, tape supply reel, printing head, inker, heater, and the pressure rollers will be mounted on the face of the front panel. The use of a standard size paper tape roll (8 inch diameter) establishes the use of a standard panel size of 10 1/2 inches. In order to meet the requirements for a starting

(acceleration) time of 10 milliseconds, several "dancer" roller loops will be used; it is felt that sufficient acceleration of the paper supply reel can be achieved for an ultimate tape speed of 16 inches per second without resorting to servo-drive techniques. The electronic portion of the printer will be subdivided into pluggable modular packages.

Essentially the same logical functions will be found in the tape printer as in the half-page printer except for one major difference. The character configuration information which is stored in the 5 x 7 encoder matrix is read out by appropriate timing signals, one column at a time, for a total of 5 columns (each column is comprised of 7 parallel outputs). This system is required since the character is generated by the print head on moving tape where the print head consists of 7 in-line electrodes. This simple print head construction obviates the need for much of the high voltage pulse circuitry required by the half-page printer.